

WHAT IS CLAIMED IS:

- 1                   1.       A medical method, comprising:  
2                   providing an implantable therapeutic device (ITD) configured to measure a  
3 primary parameter indicative of an aberrant heart rhythm and to deliver a therapy to correct  
4 the aberrant heart rhythm;  
5                   providing an implantable sensing device (ISD) configured to  
6 measure a secondary parameter indicative of the aberrant heart rhythm;  
7 implanting the ITD and ISD in a patient;  
8 connecting the ITD and ISD; and  
9 operating the ITD as a function of the measured primary parameter and the  
10 measured secondary parameter.
- 1                   2.       A medical method as in claim 1, wherein the step of operating the ITD  
2 comprises delivering therapy if and only if both the measured primary parameter and the  
3 measured secondary parameter are indicative of an aberrant heart rhythm.
- 1                   3.       A medical method as in claim 2, wherein the primary parameter  
2 comprises ECG.
- 1                   4.       A medical method as in claim 3, wherein the secondary parameter  
2 comprises vascular pressure.
- 1                   5.       A medical method as in claim 3, wherein the secondary parameter  
2 comprises vascular flow.
- 1                   6.       A medical method as in claim 3, wherein the secondary parameter  
2 comprises intracardiac pressure.
- 1                   7.       A medical method as in claim 3, wherein the secondary parameter  
2 comprises tissue perfusion.
- 1                   8.       An implantable system, comprising:  
2 an implantable therapeutic device (ITD) configured to measure a primary  
3 parameter indicative of an aberrant heart rhythm and to deliver a therapy to correct the  
4 aberrant heart rhythm;

5                   an implantable sensing device (ISD) configured to measure a secondary  
6 parameter indicative of the aberrant heart rhythm, the ISD connected to the ITD;  
7                   wherein the ITD includes an algorithm that dictates the delivery of the therapy  
8 if and only if both the measured primary parameter and the measured secondary parameter  
9 are indicative of an aberrant heart rhythm.

1                   9.       An implantable system as in claim 8, wherein the ITD is configured to  
2 measure ECG as the primary parameter.

1                   10.     An implantable system as in claim 9, wherein ISD is configured to  
2 measure vascular pressure as the secondary parameter.

1                   11.     An implantable system as in claim 9, wherein ISD is configured to  
2 measure vascular flow as the secondary parameter.

1                   12.     An implantable system as in claim 9, wherein ISD is configured to  
2 measure intracardiac pressure as the secondary parameter.

1                   13.     An implantable system as in claim 9, wherein ISD is configured to  
2 measure tissue perfusion as the secondary parameter.

1                   14.     An implantable therapeutic device (ITD) configured to measure a  
2 primary parameter indicative of an aberrant heart rhythm and to deliver a therapy to correct  
3 the aberrant heart rhythm the ITD configured for connection to an implantable sensing device  
4 (ISD) configured to measure a secondary parameter indicative of the aberrant heart rhythm,  
5 wherein the ITD includes an algorithm that dictates the delivery of the therapy if and only if  
6 both the measured primary parameter and the measured secondary parameter are indicative of  
7 an aberrant heart rhythm.